SunBeam Institute of Information Technology Java Assignment 8

- Q1) Create Java application for fixed stack & growable stack based on Stack interface, for storing emp details.
- 1.1 Create Employee class -- id,name,salary, constructor,toString
- 1.2 Stack interface -- push & pop functionality for Emp refs. & declare STACK SIZE as a constant.
- 1.3 Create implementation class of Stack i/f -- FixedStack (array based)
- 1.4 Create another implementation class of Stack i/f-- GrowableStack (array based)
- 1.5 Create Tester class (Hint: use dynamic method dispatch using interfaces)

Display Menu

Note: Must use 1 switch-case only. You won't need any complex nested control structure

Once user selects either fixed or growable stack, user shouldn't be allowed to change the selection of the stack.

(Hint: null checking)

- 1 -- Choose Fixed Stack
- 2 -- Choose Growable Stack

Accept following options only after initial selection. (Hint: null checking)

- 3 -- Push data
- I/P: Accept emp details & store these details in the earlier chosen stack or give error mesg: NO stack chosen!!!
- 4 --- Pop data & display the same (from the earlier chosen stack or give error mesg: NO stack chosen !!!)

No inputs are required: pop emp details from the top of the stack

5 -- Exit

- Q2) Write a Java program to create a new array list, add some colors (string) and print out the collection as sorted list.
- Q3) Write a Java program to replace the second element of a ArrayList with the specified element.